

Your Fence

How To Choose It - How To Use It



List of Offices

CYCLONE FENCE COMPANY

General Offices: Waukegan, Ill.

Pacific Coast Division:

STANDARD FENCE COMPANY

General Offices: Oakland, Calif.

FACTORIES

CLEVELAND, OHIO
DEKALB, ILL.

FORT WORTH, TEXAS
GREENSBURG, IND.

NEWARK, N. J.
OAKLAND, CALIF.

PORTLAND, OREGON
TECUMSEH, MICH.

WAUKEGAN, ILLINOIS

SALES AND ERECTION OFFICES

ALBANY, N. Y.
ATLANTA, GA.
BALTIMORE, MD.
BIRMINGHAM, ALA.
BOSTON, MASS.
BUFFALO, N. Y.
CEDAR RAPIDS, IOWA
CHARLOTTE, N. C.
CHICAGO, ILL.
CINCINNATI, OHIO

COLUMBUS, OHIO
DALLAS, TEXAS
DETROIT, MICH.
HARTFORD, CONN.
HOUSTON, TEXAS
INDIANAPOLIS, IND.
JACKSON, MICH.
JACKSON, MISS.
JACKSONVILLE, FLA.
KANSAS CITY, MO.

LOS ANGELES, CALIF.
MILWAUKEE, WISC.
MINEOLA, N. Y.
MINNEAPOLIS, MINN.
NEW ORLEANS, LA.
NEW YORK CITY
OKLAHOMA CITY, OKLA.
PHILADELPHIA, PA.
PITTSBURGH, PA.
PROVIDENCE, R. I.

RICHMOND, VA.
ST. LOUIS, MO.
ST. PAUL, MINN.
SHREVEPORT, LA.
SAN FRANCISCO, CALIF.
SEATTLE, WASH.
TAMPA, FLA.
TOLEDO, OHIO
TULSA, OKLA.
WASHINGTON, D. C.
WHITE PLAINS, N. Y.

U·S·S CYCLONE FENCE



UNITED STATES STEEL

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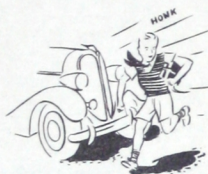


WHY A FENCE?...

● When you buy a fence you are buying more than just something to mark off a property line.

If you are a home-owner you are buying privacy for yourself and your family.

You are buying protection for your children. They can't wander away or heedlessly rush out



on the street in the way of traffic. A fence keeps trespassers and undesirables at a distance. It keeps your dog in and other dogs out and greatly

decreases the chance of theft or accident.

You are buying a setting for your property—a background to your planting and landscaping—the finishing touch to your home.

If you are a school or public official and are buying fence for parks, school yards or beaches, you are buying protection for the public, security against accident and inconvenience, safe enclosures for play, and the certainty that no one will enter an athletic contest except through an authorized gate.

If you are an industrialist, you are buying security against undesirable trespassers and malicious intruders, as well as safeguarding the careless public itself from getting too close to machinery or factory traffic. A good fence makes the duties of your watchmen lighter, lowers your insurance rate, and protects you against possible liability suits.

An Important Part of Your Property

When you think of fence, think of it as an important part of your property that calls for care-

ful consideration and selection of materials and the most efficient installation. Almost anybody can build a fence—but it takes a good fence-man to build one good enough to enclose *your* property.

A fence can be a positive source of annoyance if it requires constant repairs, large or small. On the other hand, if properly designed and erected, it can be the means of most economical protection for many years with only the slightest cost for upkeep. Fence can also be an eyesore, clashing with all its surroundings, or it can be a thing of beauty which actually adds to the appearance and value of the property it encloses. To insure getting everything you need and want in a fence—to be sure your fence will give you years of efficient service with the least possible cost for upkeep, it is wise to consider the company that makes it.

Who Makes the Fence You Buy?

The Cyclone Fence Company—a subsidiary of United States Steel—has been making fence for almost fifty years. It has all the technical resources and experience of United States Steel to draw on in addition to its own vast experience in meeting fencing problems. Advanced engineering methods and improv-



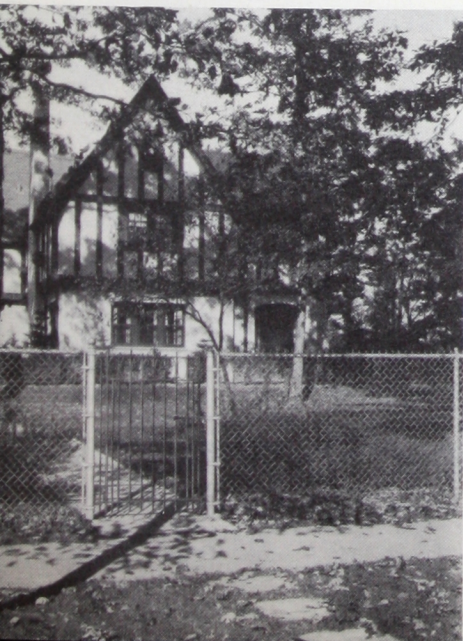
ed manufacturing operations make Cyclone fences outstanding in their field. So, also, do the quality of the materials employed, the workmanship, the design and the estimating and installation service which is offered on the smallest as well as on the largest job.

CYCLONE SAFEGUARD FENCE

★ ★ ★ Home Application



A beautiful suburban home like this, fenced with Safeguard, is excellently set off by this fine fence. Note how the steel picket drive gate adds dignity and charm to this view of the house. Note also the double rail at the corners which provides greater strength at the point of greatest strain.



Here is another view of a home which also employs a steel picket gate . . . a walk gate this time . . . both to vary the line of fence and to provide a beautiful and effective entrance to the yard. Safeguard Fence gives adequate protection to your property and is good looking at the same time.



See how this trim, sturdy fence clearly defines property lines and protects planted areas without shutting out any of the beauty of either of these well-kept adjoining back yards. For a further description of this fence see page 20.

DIFFERENT KINDS OF FENCING*

● A fence actually is but a barrier, in the same way that a log thrown across a stream is a "bridge." Anyone can make such a bridge and anyone can make a fence of some sort. But even the most ordinary bridge, if it is to serve today's requirements, must be an engineered thing, planned by engineers and erected by workmen who know how. So it is with fence. A good fence requires STEEL of scientific formula best suited to fence purposes — properly and heavily GALVANIZED — DESIGN that takes into consideration every force of nature and man that fence must withstand — and MANUFACTURE and ERECTION by men who have the knowledge, the equipment and the will to do it right.

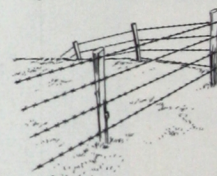
The Cyclone Fence Company operates nationally and has at its command all the manufacturing and scientific resources of the great United States Steel Corporation. Because of its tremendous volume it can bring every justifiable economy to even the smallest fencing requirement — and provide the most trouble-free service.

Choose Your Fence With Care

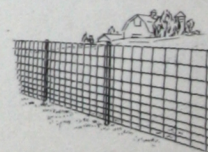
Unless you have made a long study of fence, beware the individual who has but one type and kind of fence to sell. There is no single type which meets all requirements, but there are many types which serve many different purposes. In fact, the engineering development of specific kinds of fence for the almost limitless range of uses which vary from factory, estate, country club, cemetery, airport, park, highway, residence, etc., has been one of the chief contributions of the Cyclone Fence Company to the science of fencing.

An expensive fence is not necessarily the best for your purpose. Each type of fence serves certain needs best and at lowest overall cost. Cyclone sales engineers are frequently able to point out a more economical method of fencing that will actually serve your purpose better — simply because they are under no necessity of pushing a single type of fence for all uses. It doesn't matter, either, whether you need ten feet of fence or ten miles. The smallest fence job is planned and erected with the same care and attention as the largest.

* Throughout this book you will find illustrated the various types of Cyclone Fence. Below let us look for a few moments at the various types of fences obtainable, noting the comments on each. Here is a barb-wire fence. It has no decorative value and should, of course, be used only where none is needed. It affords a low cost method of enclosing large animals or barring them. It will not keep out dogs or small animals. It should not be used where children play or to enclose highly valuable livestock. It serves its proper purposes well and is an important type of fence.



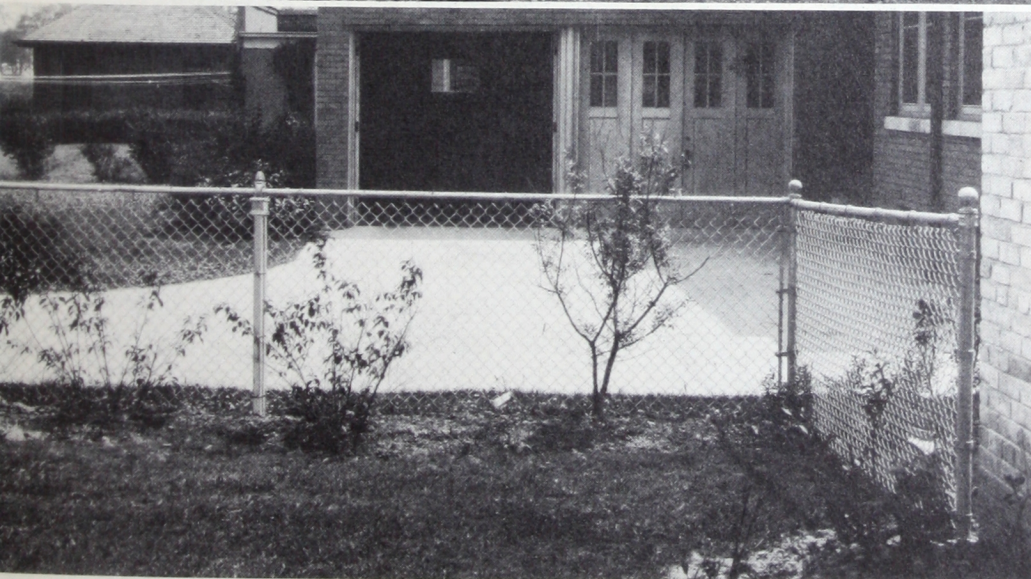
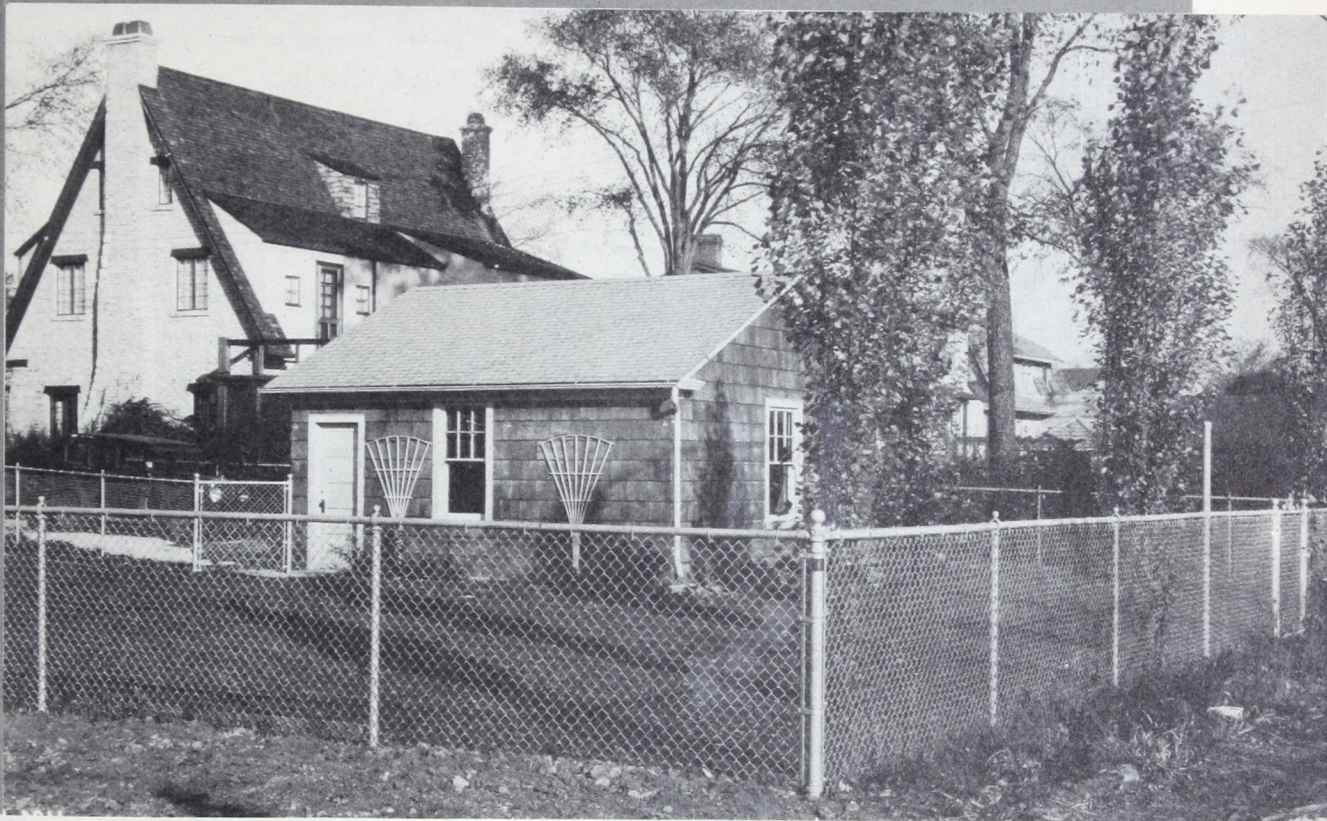
Here is a type of fence commonly called "hog-wire" or "field-fence." It will confine or bar farm animals. It should not be used where appearance is an important factor although good-looking installations can be made on farms and ranches. This fence fills a great number of uses where large areas must be fenced at low cost. It should be considered only for the service for which it is intended — farm or similar uses.



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CYCLONE SAFEGUARD FENCE

*** Home Application



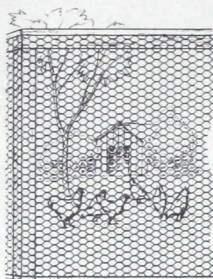
Here is another example of a yard which is fenced all the way around with Safeguard, not only the outside fence but the division fence too. Note the way the fence fabric is attached to the corner post. It is attached to a steel bar which is linked into the fabric. The steel bar is then bound to the post. This prevents any possibility of the fence warping or sagging at the corner.



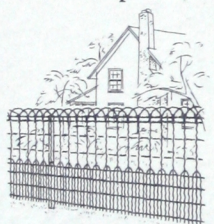
The owner of this newly planted back yard need not trust the safety of his shrubs and bushes to his neighbor's thoughtfulness and driving skill. Note, too, how the end post is set so close to the house that even a dog couldn't squeeze its way through. For a further description of this fence see page 20.

WHO MAKES THE FENCE YOU BUY?

● Here is a "poultry netting" fence. As its name indicates, it is intended primarily for confining or keeping out small animals or poultry. It should be used only where the fence will not be called upon to resist great strains or where appearance is not important.



Here is a type of low lawn fence (also made by Cyclone). It is a good fence where appearance is important and where protection of shrubs



and grass from the casual stroller or marauding dogs and small animals is a necessity. It meets these requirements at the lowest possible cost. From the protection

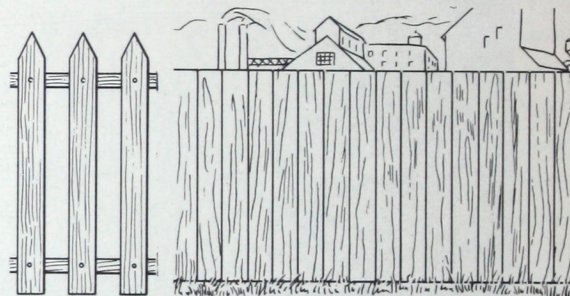
standpoint it should be regarded as something in the nature of a polite hint to keep out. There are many brands on the market. In the purchasing of this lawn fence, extreme care should be exercised in making certain that inadvertently an inferior product is not purchased.

Wood Fences

Probably wood was one of the first fence materials used by man. It was, years ago, plentiful and cheap. Its present-day use as a fence material is, in most cases, merely a continuation of a habit established by past generations — for a wood fence is no longer economical in either first or ultimate cost. A glance at any board fence which has been in place for even a comparatively short time shows either a sadly dilapidated condition

or the presence of a large percentage of new boards. The ease with which parts of the fence can be removed to permit passage of an intruder is a primary weakness of wooden construction for property protection fence.

A wood picket fence, likewise deteriorates rapidly and needs constant repairing and paint-



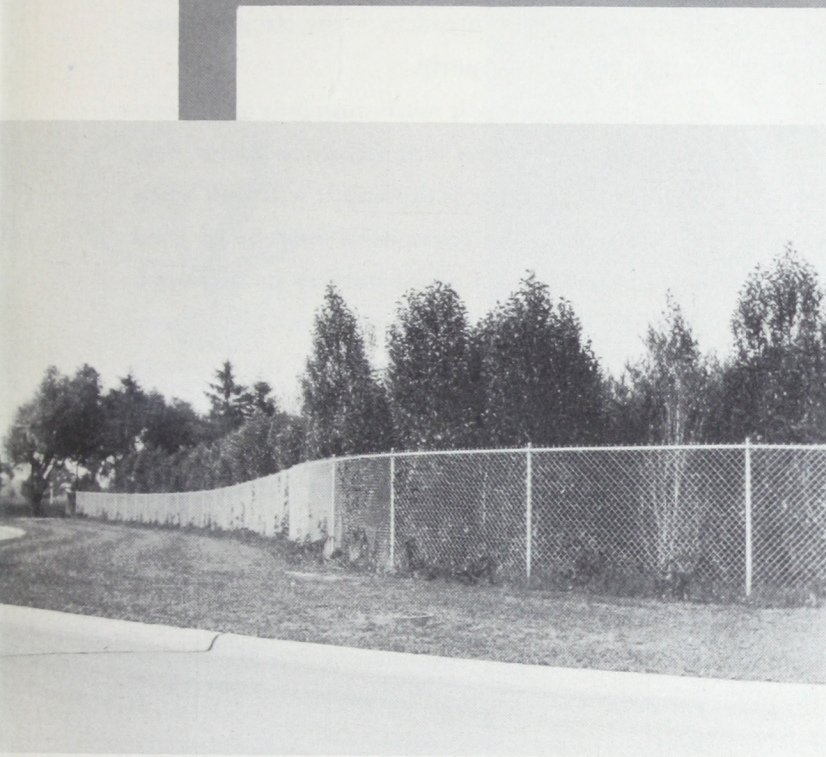
ing. There are, however, a number of uses for wood fence where economy is purposely sacrificed for a fence which fits into a period design or specific type of residential architecture. The wood-picket fence which surrounds a Cape Cod cottage is a fair example. The fence purchaser should know in advance, however, that his selection of such a fence is in the nature of a luxury and should take into consideration the fact that he will have to pay higher maintenance charges for the sake of the artistic effect for which he is looking.

Chain-Link Fence

The production of Chain-Link fence marked probably the greatest advance in fence construction the world has known. In Chain-Link fabric the wire is not continuous and is not twisted

CYCLONE SAFEGUARD FENCE

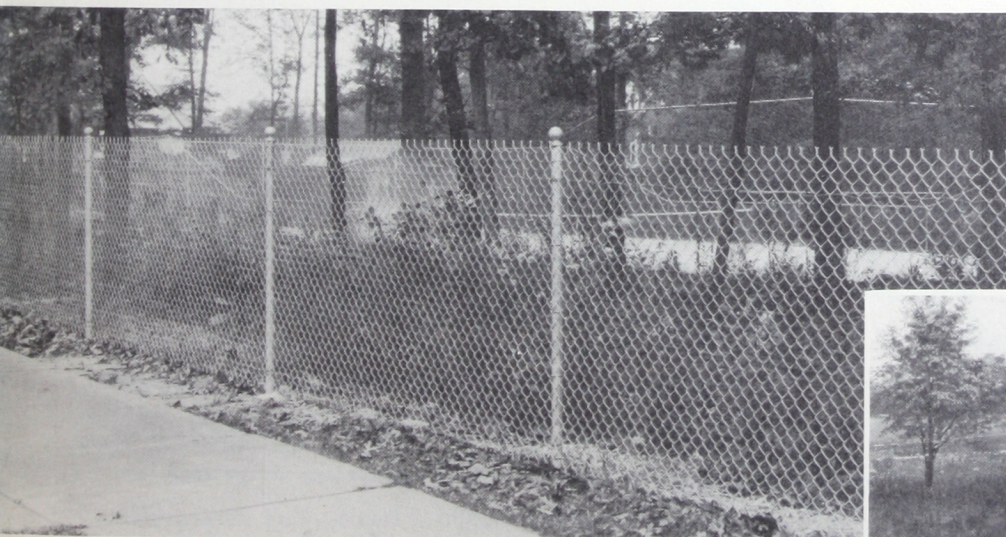
*** Home Application



Here is a high Cyclone Safeguard Fence around a park. It not only keeps people from entering when and as they please, but at the same time protects the shrubbery from trampling and breakage. Viewed from the other side such a fence can scarcely be seen through the shrubbery.



See how this long division fence definitely and pleasingly marks off the limits of the property. The tubular steel corner post is set firmly in concrete and it will not give in any direction. The other posts are in concrete too.



This is a good example of a Cyclone Safeguard Fence that is erected without a top rail. The wire is stretched firmly between the posts and will not sag or become weak.

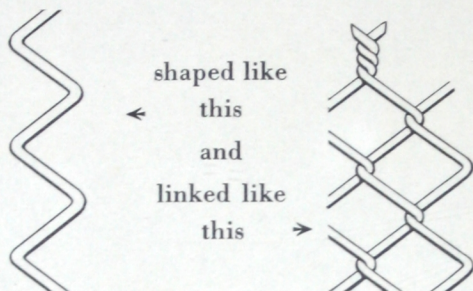
Here is a Cyclone Safeguard Fence enclosing three sides of a yard that has been only recently planted. When the shrubbery is grown the fence will be scarcely visible from the inside and yet offer effective protection. For a further description of this fence see page 20.





WHAT FENCE DO I WANT?

together at each intersection as in most types of woven fence, but is made of vertical strands



not twisted together. This permits free action at the joints and eliminates trouble in stretching the fence straight between posts. In fact, Chain-Link fence will roll up and unroll as easily as a length of chain, hence its name. There is no difficulty in getting a perfect alignment — when the fabric is pulled taut, the fence is straight in every part.

In the very rare case, where through accident, a repair is necessary, neither a new section of fence nor an unsightly repair is required. New strands are quickly inserted, the fence restretched and the place where the repairs were made will not be discernible.

The construction of Chain-Link fabric also permits use of a heavier wire, since, no matter how heavy the wire is, the fence can be stretched taut and straight. This permits Chain-Link fence to be made far stronger than an ordinary fence. In fact, a strand of Cyclone Fence will withstand a tensile strength test of 70,000 lbs. per square inch. Cyclone Chain-Link fabric offers the stur-

diest resistance to intruders — the strongest protection to your property.

● Since we are much more conscious of appearance these days than ever before, a prime consideration in a fence is the way it will look when it is installed. The fence itself must be of good appearance, it must adapt itself to its surroundings and as nearly as possible blend with them. It must add to the appearance of the property and under no circumstances detract from it, either when the fence is new or several years old.

You want a fence that will last just as long as possible — a fence on which you will have to spend little or no money for upkeep once it is installed.

And, of course, you want a fence that will serve the exact purpose for which you want your fence — to mark a boundary between your property and your neighbor's, to drop a polite hint to keep out, or to say "keep out" in no uncertain terms.

The Name "Cyclone"

Surely you are familiar with the name "Cyclone Fence." You may not however, be fully aware that the word "Cyclone" is not a generic term, designating a type of fence. Cyclone is a brand name which applies only to the fences made by the Cyclone Fence Company. It means, too, that Cyclone products are backed by the United States Steel Corporation of which the Cyclone Fence Company is a subsidiary. Naturally, this means that in Cyclone fences you are getting for your money the highest fence value obtainable.

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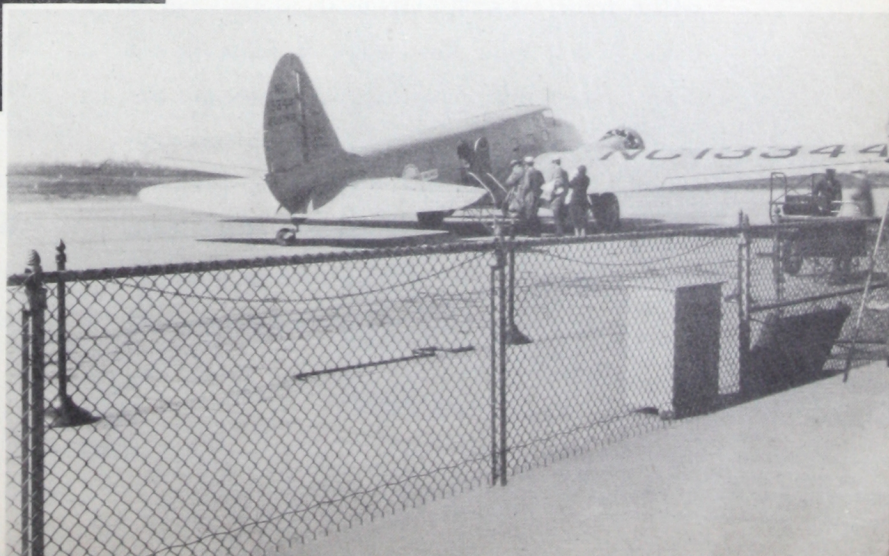
CYCLONE SAFEGUARD FENCE

*** *Industrial Application*



Small rural district schools require for their children the same protection that Cyclone Safeguard Fence affords children attending the larger city schools.

Here is another illustration of how Safeguard Fence performs the important duty of not only enclosing an airplane landing field, but keeps people from heedlessly running onto the field in the way of possible danger.



High Safeguard Fence is frequently used for enclosing industrial properties, or as above, around parking areas adjacent to large stores, offices and public buildings. This sturdy fence effectively keeps out intruders, yet permits easy entrance and exit to the traffic incidental to business. Traffic is thus under absolute control at all times, cars are safely stored, accidents prevented. See the heavy top rail. Note also the horizontal and diagonal bracing of the corner post — another example of Cyclone's superior construction practices.



HOW CAN I DETERMINE FENCE QUALITY?*

* *Consider the Manufacturer*

The simplest, most convenient and effective way of getting maximum value for your fence investment is to place your fencing problem *at the beginning* in the hands of a reliable, *responsible* fence manufacturer. If he is of this type, even though your expenditure may be but a few dollars, he will make a careful study of your needs and after a painstaking analysis make his recommendations accordingly.

One way of determining the manufacturer's competence is by the degree of *seriousness* with which his representative approaches your problem — for it is just that — a *problem* calling for a high degree of skill and experience. Make no mistake in this. Even though you need fence only for a few feet, it may present difficulties greater than a fence a mile in extent. It has been said, "A little knowledge is a dangerous thing!" Beware of any individual who treats your fencing problem in too casual a manner.

Beware, also, of those individuals who, finding they were "handy" in making a fence or erecting it, have gone into the fence business. The very self-assurance of such individuals would seem to indicate that their knowledge of fence is not deep enough for them to fully appreciate the many problems of fencing. These problems comprise the lay of the ground itself, the presence of trees or buildings, the adaptation of the fence to its surroundings — type of buildings, grounds, other fences, etc., the selection and proper set-

ting of the posts, the proper distance between them, the soil or footing in which they are to be set, the recommendations of the proper fence for the purpose — all this in addition to the character and quality of the fence material itself.

None of these things can be accurately enough determined through the rule of thumb judgment of inexperienced men — it takes the considered judgment of an expert to estimate accurately all these factors. Every Cyclone salesman is such an expert. And the services of our trained men to survey your requirements and furnish estimates are available to you without obligation.

Bear in mind that the Cyclone Fence Company has available to it all the metallurgical skill and manufacturing facilities of the world's largest steel making organization, the United States Steel Corporation, of which the Cyclone Fence Company is a subsidiary. The quality of every ounce of material that goes into a Cyclone Fence is thus under the control of this company from the iron ore to the finished product.

Quality of the Materials

Ask before you buy any fence if all parts are of virgin, new metal. Protect yourself from the risk of getting a fence made from second-hand or re-conditioned materials. Cyclone uses nothing but virgin steel direct from the mills of its constituent companies. Thus you are assured of *all* the years of service for which you are paying.

CYCLONE STEEL PICKET

*** FENCE



Here is a view of a cemetery fenced with Cyclone Steel Picket Fence. This is a dignified and noble-looking fence which quite carries out the purpose for which it was erected. You will note it is an unusually high fence and is carried out with a high degree of ornamentation . . . only one of the numerous variations to which Cyclone Steel Picket Fence lends itself.

For permanence, dignity and beauty combined, no other type of fence quite compares with Steel Picket Fence. Equally suitable for enclosing homes, schools, churches, institutions, factories, offices or public buildings. The fence in the illustration above is Cyclone Standard Design No. 507.



Only the best is good enough for the owner of this beautifully landscaped property. Designs prepared by your architect to carry out the motif of the architecture or landscaping may be used as the basis for your Steel Picket Fence. For a further description of this fence see p. 21.

HOW CAN I DETERMINE FENCE QUALITY?

Copper Steel

Determine next, the *kind* of steel of which the fence offered you is made. All Cyclone Fence is made from special analysis *copper steel*. One of the wonders of modern metallurgy was the comparatively recent discovery that the addition of a small amount of copper produces a steel which is highly resistant to the rusting attacks of weather. Cyclone was the first to see the advantages that this alloy offered in the way of fence with added years of service, and now gives it to you with no additional cost. Having secured information on the quality of steel, your next question should be, "What kind of protective coating is given this fence?"

Galvanizing After Weaving

Cyclone Chain-Link fabric is coated *after weaving* with a heavy covering of zinc by the *hot-dip* method. All fittings are coated in the same manner. Here is one of the most important features of Cyclone Chain-Link Fence. Nearly half a century of fence manufacturing has taught Cyclone that this method has no equal in effective protection of the underlying metal. Therefore, this organization has made gigantic investments in equipment for the hot-dip (spelterizing) method of coating with zinc *after* weaving. A moment's consideration will show its superiority over the older method of weaving Chain-Link fabric from wire which is given its coating of zinc *before* weaving.

To state the difference between the two methods in simple terms it might be said that in the older methods the wire is given a coat of zinc and *then* made into fence fabric. The Cyclone way is to weave the wire into fence fabric and coat the fabric with zinc afterwards.

Galvanizing Before Weaving

Bear in mind that the process of weaving calls for manipulation of the wire by machinery. A glance at Chain-Link Fence fabric will show the

degree to which the originally straight wire is bent, twisted and formed during the process. In the case of pre-coated wire, the zinc coating is often cracked or checked by the mechanical handling received during the weaving operations. And when the zinc coating is broken, a way is left open for the elements to attack the wire underneath. Also, by this pre-coated method, the cross-section surfaces exposed at the barbs by the cutting of the wire remain uncoated and unprotected.



Observe how bending of pre-coated wire during weaving process causes zinc coating to crack and scale.

Note also unprotected metal at surfaces exposed by cutting. A fence made of pre-coated wire can always be detected by examination of the "cut ends."



How much better it is then for the fence to be woven first and coated afterwards as Cyclone does it. The Cyclone way makes certain that your fence comes to you with no surfaces left unprotected. By dipping the completed fabric in hot zinc, there is no opportunity for surfaces to be left exposed — and no machinery operations afterwards to impair the protective coating.

"Why, then," you ask, "if galvanizing after weaving be such a superior method, do not all fence manufacturers use it?"

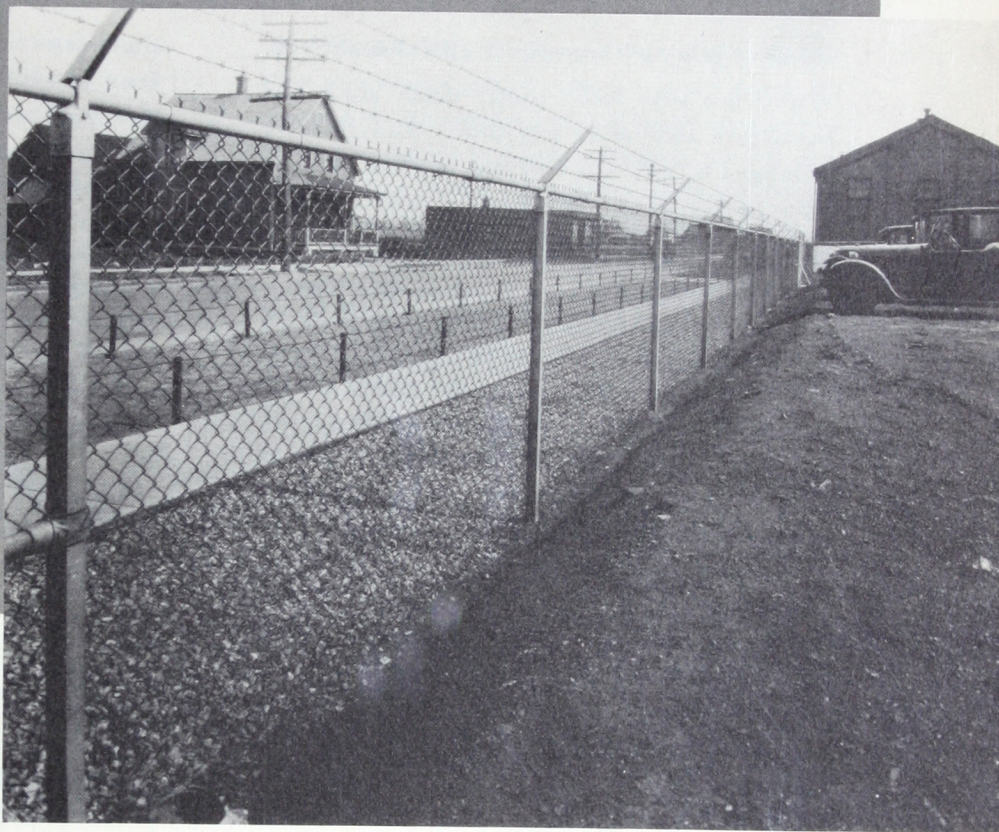
The answer to this fair question is: "The Cyclone method calls for such a high investment in equipment that few companies can afford to make it."

Coated wire is easily obtainable on the open market and hence only a weaving machine is needed to make fence from pre-coated wire. To give you the additional long life of fence coated *after* weaving, Cyclone has had to purchase and install huge hot metal tanks and associated handling equipment.

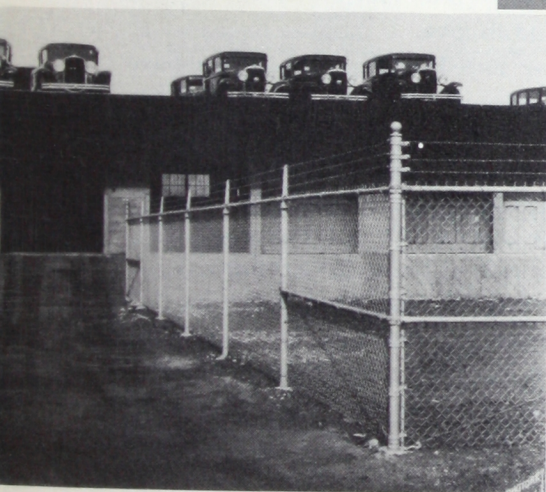
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CYCLONE INVINCIBLE

*** FENCE

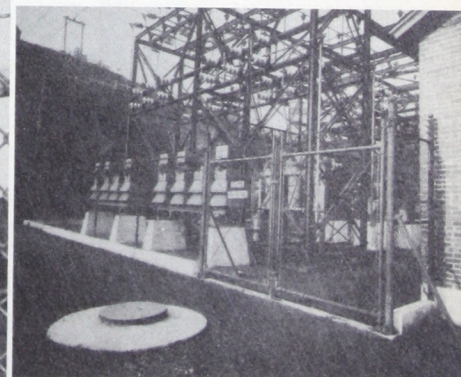


Above is a Cyclone Invincible Fence surrounding a parking yard. The name INVINCIBLE is clearly understood by a glance at the top of it . . . the arms along which barb-wire is strung. This fence is clearly impassable by any ordinary means and is largely used to enclose factory yards and industrial plants generally.

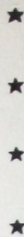


Note the vertical position of the extension arms carrying the barbed wire in the illustration just above. These extension arms can also be set to slant in or out at a 45° angle. This feature of adjustable extension arms is another good indication of how thoroughly Cyclone engineers study special fencing requirements and of how completely Cyclone fence meets fencing needs.

Study this close-up view of the top of a Cyclone Invincible Fence. The inclined arm is securely fastened to the post and the barb-wire is attached to slots in the post, then locked with a key wire which may be removed to adjust tension of the barb-wire.



Here is a very common use for Cyclone Invincible Fence . . . to enclose electric power stations and plants. This is one place where the public simply must be kept out and this fence does it very effectively. For a further description of this fence see page 21.



THE 12M TEST*

* Cyclone Pioneered "12M Fence"

Most fence wire looks pretty much alike, and heretofore the buyer practically had to learn whether his fence was rust and weather resistant after he bought it. Often he learned that rust and corrosion and time are no respecters of sales arguments.

● The Cyclone Fence Company, therefore, in order to insure its customers of the greatest amount of resistance to rust and corrosion, developed what is known as "Cyclone 12M Fence." When samples of this fence fabric are dipped in a standard solution of copper sulphate they will stand a minimum of twelve one-minute immersions before the protective zinc coating is eaten away at any spot. The copper sulphate acts on the zinc covering just as outdoor conditions would, only much faster of course. This test is known as the "Preece Test." Cyclone was the first company to produce wire fence of this quality.

Cyclone Chain-Link fence which bears the "12M" label will stand two or three times the

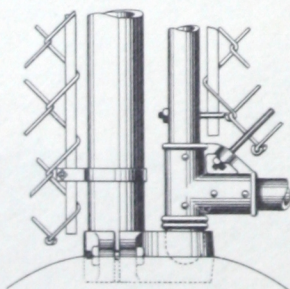
number of immersions that many other kinds of fencing will stand which shows that the protective zinc covering is thick, evenly distributed and strong enough to withstand for many years all the normal natural forces which work on metal fence.

All Cyclone Framework is "12M"

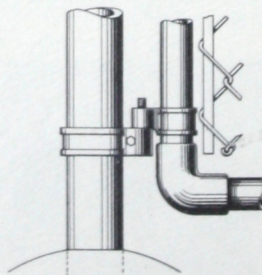
For years the posts and all the framework used in Cyclone Fence has been heavily galvanized and will stand a minimum of 12 one-minute immersions by the Preece Test.

● POSTS The posts are as carefully made as the wire. They have to be, for they form the supporting structure of the fence. Whether they are H-column section posts or drive posts, they will give all the service that that particular type of post is designed to give.

● QUALITY OF THE FITTINGS So far we have discussed quality of fabric chiefly. Now, we come to the "fittings" or what might be termed the key points of the fence. In this we also include those parts entering into the construction of the gates.



Here is the famous Cyclone method of gate construction developed exclusively for heavy 1 1/2" and 2" frame gates. On gates with framework of smaller diameter, a different type of fitting is used. Notice that the entire weight of the gate rests on a sturdy "ball and socket" hinge embedded in concrete at the foot of the gate post. The weight of the gate does not rest on the post, thus there's nothing to pull it out of the perpendicular. Neither can the gate ever slip downward and the bottom drag on the ground. No tugging or lifting is ever required to open or close this gate.



Contrast the Cyclone method at the left with this ordinary gate construction. See how the entire weight of the gate is hung on the gate post, tending to pull the post out of line. The hinge collars around the post are apt to come loose in time and allow gate to slip downward. Nothing is more annoying than a gate that drags on the ground.



Note how the Cyclone post cap provides a solid covering for the open post end. Note the skirt which comes well down over the post top. This construction effectively prevents moisture from entering interior of tubular post to cause rust.



A construction to guard against. Note lack of seal or open post top. Water can enter. Water freezing inside such post can expand the open seam and loosen cap, or even the posts themselves may be cracked.

It is obvious that even the highest quality of chain-link fabric could not give satisfactory service if the supporting structure were poorly designed and lacked strength. We shall show you by comparison a few of the outstanding features of Cyclone design in fittings. The number of fittings for various uses, runs into the hundreds. Hence, we shall endeavor to show only a few of the more commonly used types. They may be truly taken, however, as representative through-



Because metal expands in summer heat and contracts with winter cold, Cyclone has designed this expansion coupling for joining top-rails. Note the coiled spring which automatically compensates for changes in length of the top-rail due to temperature variation.

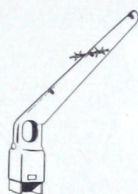
This is the common pipe coupling used by some fence makers. Because it is a rigid coupling it forces the normal expansion of the rail to find outlets in "crooks and bends." It is almost impossible to keep a top-rail straight with this or similar type couplings.

out of the Cyclone standard of fence engineering.

Just another instance of the care that goes into the manufacture of Cyclone Fence. Cyclone gates are assembled with malleable castings and are not welded. This means that they are much less likely to break than if they were welded, aside from the fact that the process of welding will also remove the galvanized finish and give an opening to the processes of rust and corrosion. Should a Cyclone gate become damaged it's a simple matter to loosen malleable castings at the corners and replace damaged parts. In the event that a welded gate is damaged it usually means a new gate.

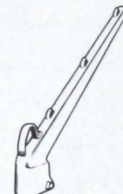
● GATES—Much of what is to be said about gates we have said in the preceding paragraphs. Cyclone gates are accurately and strongly made to match the fence or harmonize with it. Cyclone gates are sturdy and long-lasting, will not sag. For illustrations of various types of gates see page 22.

● BEWARE OF FANCY NAMES—Unfortunately for the uninitiated fence buyer — there have appeared on the market types of fence, made from pre-coated wire, to which imposing trade names of scientific sound have been given. Whatever the name, the wire has been coated *before* weaving of the fence. Undeniably the use of pre-coated wire is cheaper for the fence manufacturer and numerous praiseworthy but unsuccessful attempts have been made to develop a



Here is the Cyclone "Invincible" Arm for mounting barbed wire at top of fence. Note strength at sides of top-rail opening.

Notice how barbed wire is held in notches solidly — readily released and re-fastened if barbed wire should ever need tightening.



Compare this commonly used arm with the one shown at the left. Note how top-rail is accommodated with single piece of metal strap held by two rivets only.

Notice how barbed wire is held in place by metal tongues which must be hammered down (breaking galvanizing) to hold wire.

pre-coated wire to equal Cyclone's "galv-after" fabric. Cyclone, with the research facilities of the United States Steel Corporation to supplement its own, engages in such experimentation itself. If a more economical method that equals the quality of hot-dipping *after* weaving is ever found, Cyclone will adopt it—but *not until then*.

● A WORD OF WARNING—Before you decide between two competing brands of fence on a price basis, be sure that both manufacturers are submitting prices on the same grades of material, the same sizes of material (especially the same gauge wire and the same weight framework) and that they plan to erect the fence in the same way. For example, one purchaser found out too late that the "cheap" bid which he had accepted had quoted on fence without a top rail. The "high" bidder's price, which included a top rail, might have been as low if the cost of this feature had been subtracted from the price quoted. It pays to read and compare

specifications carefully. It is unsafe to purchase on the basis of a tempting sales talk involving the use of new and novel fence materials. For example, a school board purchased a fence made of a lead-coated wire, because they knew that lead "never rusts." It had never occurred to them however, that children's clothes would be marked by contact with such a fence just as surely as you can mark your cuff with a lead pencil. In another case, a copper wire fence was purchased to enclose a playground. "Copper resists rust," the salesman said. It is true that copper won't rust — but it is also true that copper will corrode and the resulting green, copper oxide is highly poisonous.

● **STANDARDS OF ERECTION**—The best fence in the world cannot give you good service if it is not erected properly. Here too, Cyclone standards protect you. Near you, no matter where you live, are Cyclone Erection Crews, available to erect your fence. These trained men are permanent, full-time members of the Cyclone nationwide organization. They have years of experience in erecting fence the way it must be erected if it is to give you the service to which you are entitled.

But if you prefer to use locally obtained labor to put up your fence, you can do so, in which case, Cyclone will furnish highly skilled Erection Supervisors.

Remember, however, that proper fence erection calls for a high degree of knowledge and experience. You would not trust unskilled labor to wire a building or install the plumbing. Neither can unknowing hands erect a fence that will

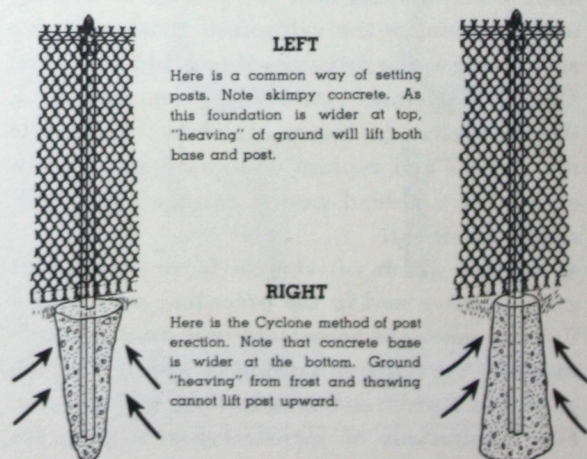
give years of trouble-free service.

In addition to skilled workmen, *every Cyclone Fence is erected to a definite and specific standard of excellence from which there can be no deviation!* These standards must be maintained, and no one in the entire Cyclone organization has the authority to order the Erection Superintendent to depart from these standards in the slightest degree. These standards protect you whether you have ordered only a *few feet* of fencing or *ten miles* of it.

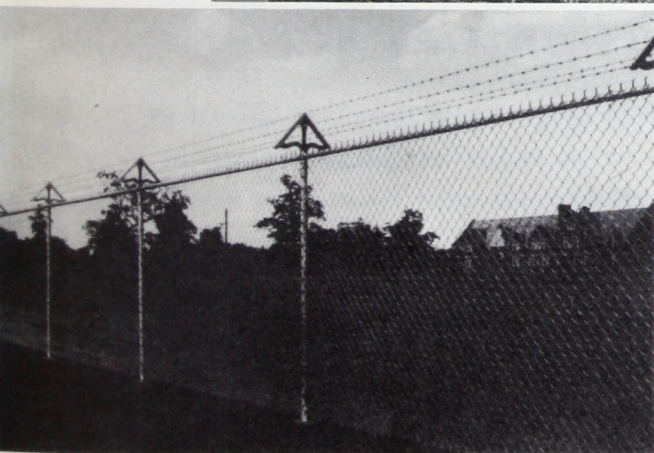
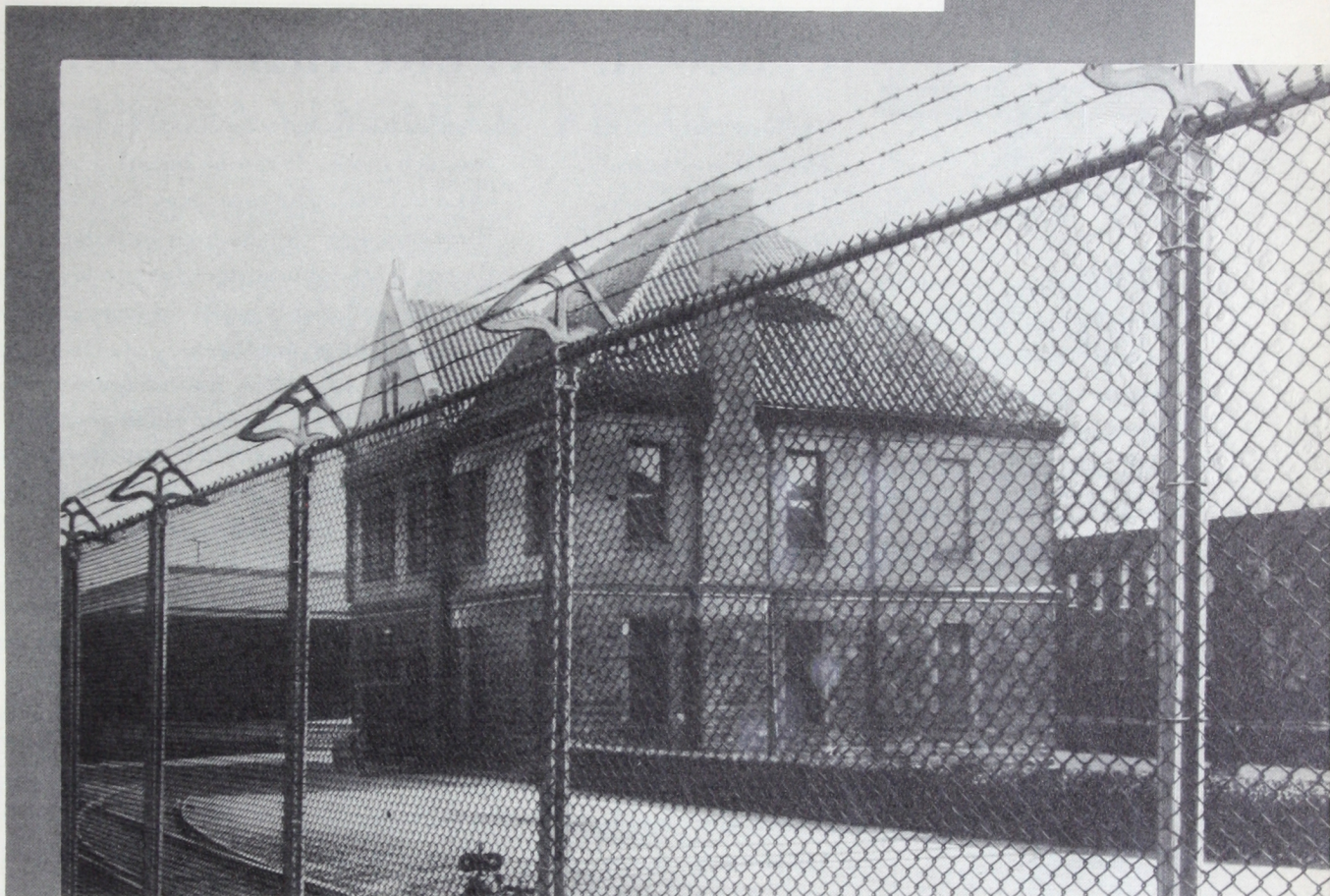
Example: "Each line-post must not be in excess of a distance of ten feet from its adjacent line-post or terminal post."

Regardless, if such distance in excess of ten feet be only one inch, Cyclone will set another post and equalize the distance between all posts in the line.

Example: "All posts shall be set in concrete of specified quality and dimension. Hole in which concrete is placed shall be of greater dimension at bottom than at top." See illustrations.



CYCLONE NON-CLIMBABLE ★ ★ ★ FENCE



This Non-Climbable Fence also has the arms arranged in an A-shape. Even if an intruder should get across he would have a great deal of difficulty getting out quickly.

A fence around a factory yard must furnish the greatest possible protection against thieves and vandals. Just imagine yourself trying to climb this fence and you will see at once why it is called Non-Climbable. Instead of having one arm like the Invincible, it has two, in this case arranged in an A-shape with five strands of barbed wire. This, together with its height and the toughness and thickness of the chain-link wire of which it is made, renders it all but impossible to cross. It affords the greatest possible amount of fence protection.



Here is a beach fence that really keeps a private beach private, yet it scarcely obstructs the view at all. The strands of barbed wire laid along the V-shaped arms are a sure discouragement to would-be trespassers. For a further description of this fence see page 21.



CYCLONE SAFEGUARD FENCE

Cyclone Safeguard Fence is a practical, trim appearing fence for residences,

school-yards, cemeteries, estates, etc. While it presents a difficult barrier to the intruder, it is a safe fencing for areas in which children are likely to play — because no barb-wire is used in its construction. Cyclone Safeguard has become almost a standard specification for schools, playgrounds and parks for the purpose of preventing children or anyone engaged in play or athletics from inadvertently running into the path of traffic on adjacent streets or highways. Cyclone Safeguard has been an important factor in many a "Save a Child" campaign.

Cyclone Safeguard Fence can be installed in any height desired from 3 feet up with gates to match. It also comes in three different weights

of wire, No. 6, No. 9 or No. 11 gauge, woven in a two-inch mesh. It can be installed with or without a top rail. The posts may be a 4.1 lb. per ft. H-column steel for the high installations or 2.72 lb. per ft. H-column steel for the lower heights. The end and corner posts are heavier according to the height of the fence.

Posts are spaced in line of fence not farther apart than 10-ft. centers. Line posts for fence 4-ft. or lower are set in 24 in. in concrete base; terminal posts are set 30 inches in concrete base. In fence 5-ft. high and over all posts are set 36 inches in concrete base.

Concrete bases for posts are of proper mixture, size and shape as determined by our Engineering Department, so as to furnish a foundation and support sufficient to withstand any strain or shock ordinarily brought to bear on fencing of this character. A liberal factor of safety is provided.

CYCLONE IDEAL SAFEGUARD FENCE

For certain uses and in some locations, only the heaviest, most sturdy fence construction available can be expected to withstand the strain and rough usage it is bound to get. Fences around schools, warehouses, athletic fields, parks and factories, for instance, must stand extreme abuse.

But there are many places where a fence of not quite such heavy construction will give complete satisfaction — at lower cost.

Cyclone Ideal Safeguard Fence was designed for just that purpose — to give ade-



quate protection at lowest cost. This fence is similar to Cyclone Safeguard except that in Ideal construction, the steel line posts are driven into the ground and anchored with drive plates instead of being set in concrete.

Ideal posts are spaced on 10 ft. centers and are held firmly in the ground by the drive plates.

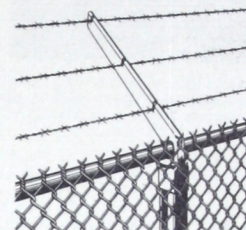
As a division fence between residences or for complete back-yard enclosures, Cyclone Ideal Safeguard is widely used, because of its trim appearance and its economy.

CYCLONE INVINCIBLE FENCE

Cyclone Invincible Fence is an almost impenetrable enclosure and barrier for use around industrial plants, reservoirs, commercial yards, and almost every service where human intruders **MUST** be kept out. It has proved itself one of the most effective and economical means of property and personal protection. This fence has also been used effectively for years by school officials for enclosing athletic fields; by private enterprises for insuring paid attendance at race tracks, baseball and football fields and other outdoor sport arenas; by municipal and state officials for enclosing fair grounds, swimming

pools and other municipal properties. The fabric is heavy No. 6 or No. 9 wire, line posts are H-column steel posts; the corner posts are 3-in. tubular steel. The upper arms, which may extend either in, out or straight up — as desired — carry three strands of barb-wire which render this fence practically impassable except at regular authorized entrances.

This fence also comes in any height desired with gates to match.

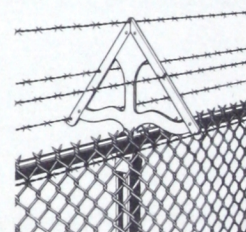


CYCLONE NON-CLIMBABLE FENCE

Cyclone Non-Climable Fence is the same as Invincible except that the barb-wire arms at the top extend out on both sides of the fence instead of only one, as shown in the A-shape in the illustration on page 19. Or the barb-wire arms may be set in a V-shape as shown in the lower illustration on page 19. It comes in either No. 6 or No. 9 gauge wire woven in a 2" chain link mesh.

Cyclone Non-Climable Fence stands at the very top of the list of fences which are designed

to keep the outsiders out. When you consider the tremendous damage that can be perpetrated by a single marauder of criminal intent or by a mentally deficient person around an industrial plant, water reservoir, power plant, chemical plant or refinery, the outlay for fence affording such positive protection is small indeed.



CYCLONE STEEL PICKET FENCE

This is a dignified and beautiful fence ideally suited for large houses, estates, schools, cemeteries, etc. It affords a high degree of protection from trespassers and marauders.

Like other Cyclone fences it can be built to any desired height and with various combinations of posts, gates, rails, etc. Gates and posts are

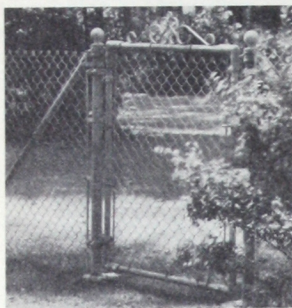
often made specially according to architect's specifications in individual designs.

Cyclone Picket Fence may be finished in the standard black or in pleasing shades of many other colors.

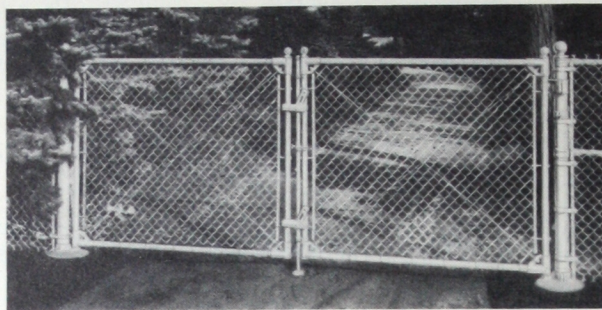




GATES



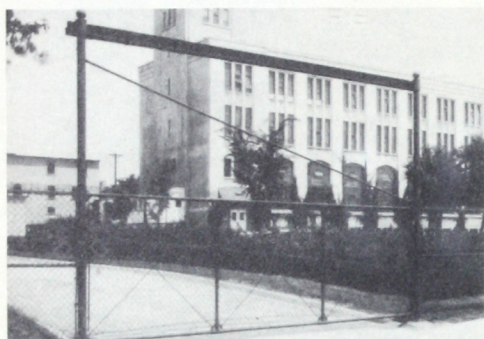
Cyclone residential chain-link walk gates are serviceable, attractive, economical. Come in several standard heights and widths to match the type of fence selected.



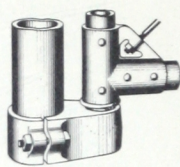
Here is a popular style Cyclone Double Drive chain-link gate that will give you years of satisfaction. Weight rests on ball-and-socket hinge embedded in concrete so gate cannot sag. Comes in several standard heights and widths.



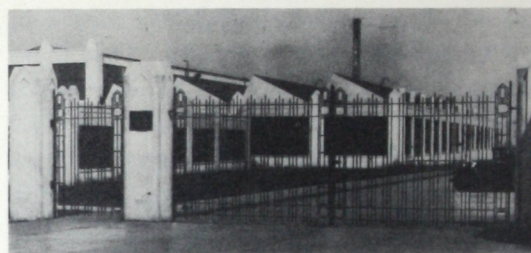
When beauty is paramount a Cyclone steel picket walk gate is the natural choice. Produced in several standard designs in several heights and widths—or especially made to architect's specifications.



A Cyclone sliding gate is illustrated above. This gate slides back inside fence instead of swinging open and can be electrically operated from inside the building if desired.

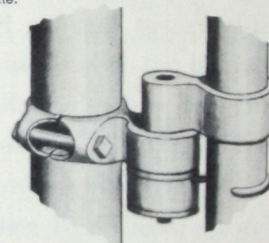


The illustration above shows how the Cyclone ball-and-socket hinge keeps Cyclone gates from slipping and sagging. Pivot, embedded in concrete, bears the weight of the gate, and takes practically all of the strain from the gate post.

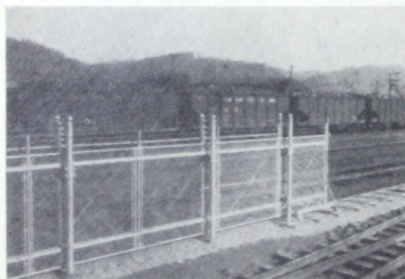


The attractive steel picket Double Drive and Walk gates above were specially produced by Cyclone from blueprints the architect furnished for a nationally-known manufacturer.

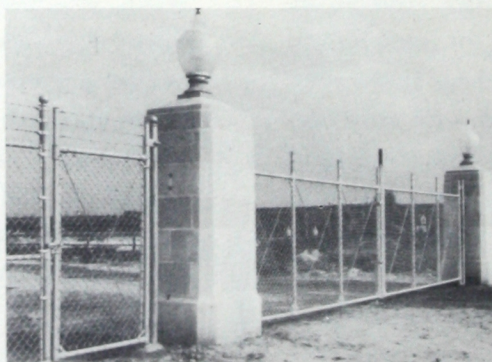
Here is Cyclone's special Self-closing Hinge that parents of small children like so well because it automatically closes the gate and keeps little wanderers at home. Can be used with any Cyclone chain-link residential walk gate.



The Cyclone gate below was developed especially for large, busy airports. It is a combination of Swing and Roller gates in one installation. Doesn't the huge post at the extreme right appear solid enough to support even this mammoth gate with ease?



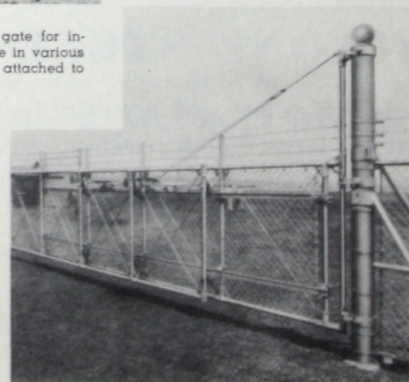
When unusual problems arise, Cyclone engineers can usually find a solution. This special Roller gate shown above covers a span of approximately 70 feet.

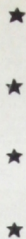


Both the Walk gate and the Double Drive chain-link gate for industrial or institutional use are illustrated above. Made in various standard heights and widths. Note how gates can be attached to decorative stone or concrete piers.

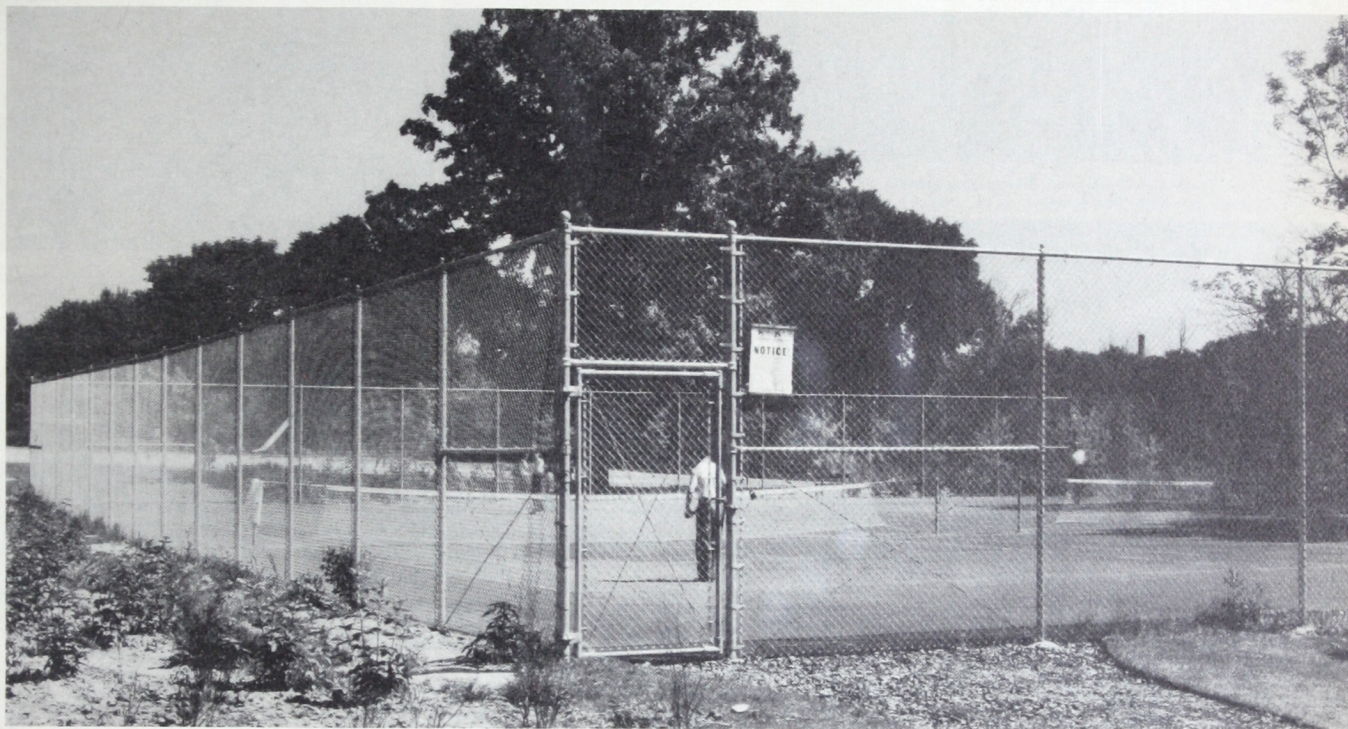


Special Ornamental Arches, Double Drive and Walk gates by Cyclone, grace many of America's finest cemeteries. Installations can be either chain-link or ornamental iron as illustrated at the left.



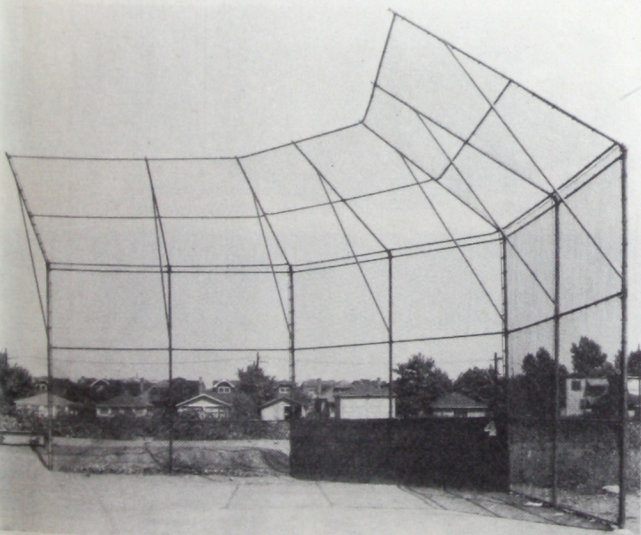


CYCLONE TENNIS ENCLOSURES AND BACKSTOPS



The same qualities which make Cyclone a fine fence make it equally good for tennis courts and backstops. In fact, Cyclone is standard specification in many of the finest tennis clubs in the country. The sturdy H-column posts, firmly set in concrete, will stand much more use and abuse than ordinary posts. The fence fabric, itself, is the same high standard chain link that goes into all Cyclone fences. The mesh, however, is 1 $\frac{3}{4}$ -inch rather than 2-inch and the wire is 11 gauge, hot-dip galvanized after weaving.

Baseball backstops for either soft or hard ball, either with overhang at the top (as illustrated at left) or straight up. Baseball backstops may be constructed according to your own designs or from those in our files.

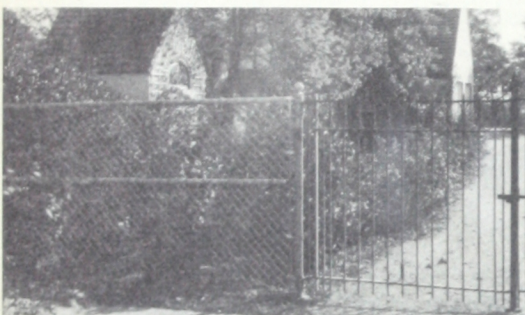




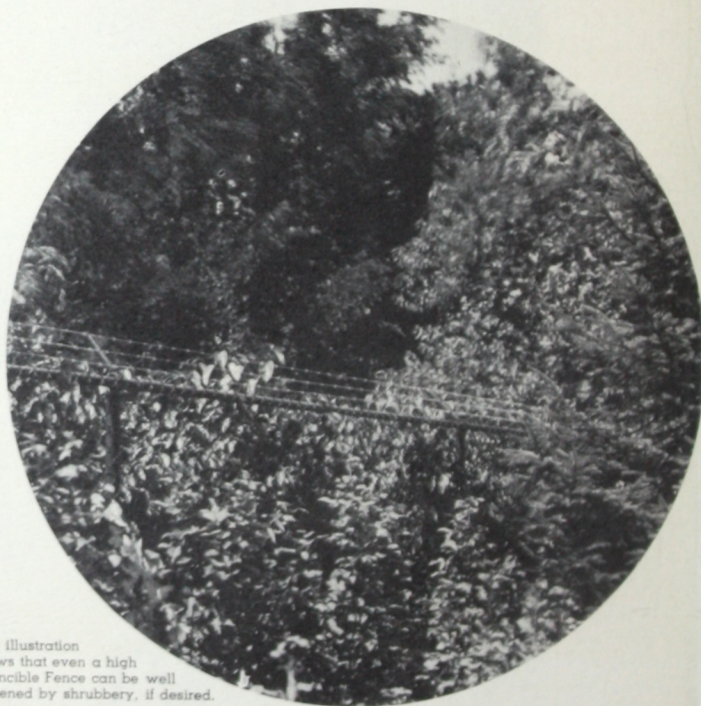
A Cyclone Safeguard Fence will do what your yard fence should do. It keeps children and dogs in, out of the street.



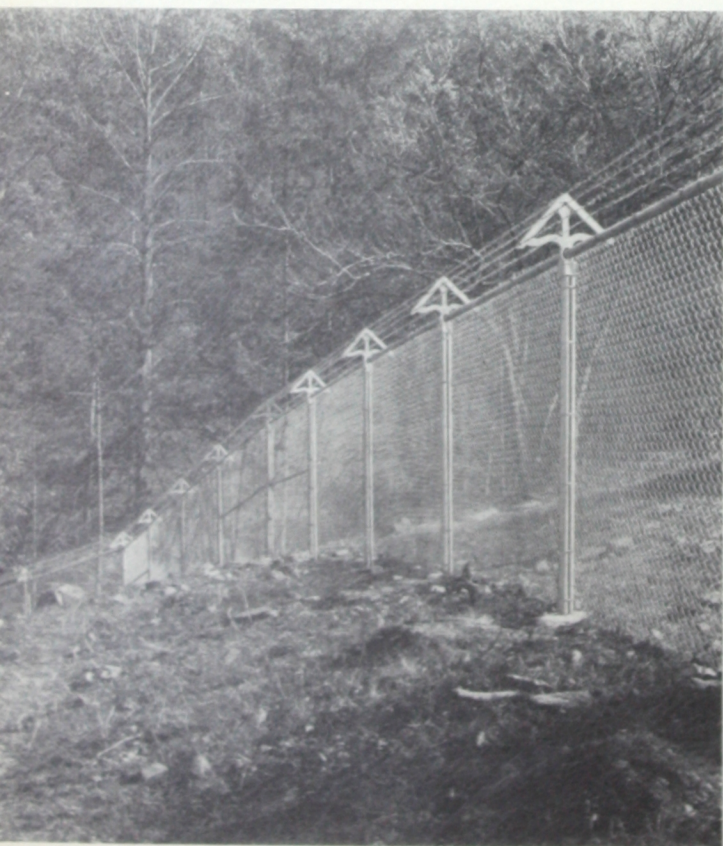
Here is a block of backyard Cyclone Safeguard fences—much more sightly and effective than the old-style wooden fences.



Beauty and utility are combined in this Cyclone Safeguard Fence with a steel picket gate. It serves here as a protection to the shrubbery as well as a fence.



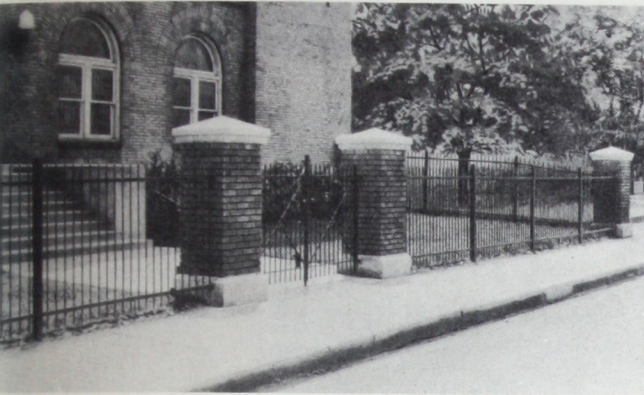
This illustration shows that even a high Invincible Fence can be well screened by shrubbery, if desired.



A Non-Climbable Fence showing how well it adapts itself to a steep grade.



A backyard nook showing how effectively Invincible Fence guards privacy



A Cyclone Steel Picket Fence that adds a solid and substantial air to this property



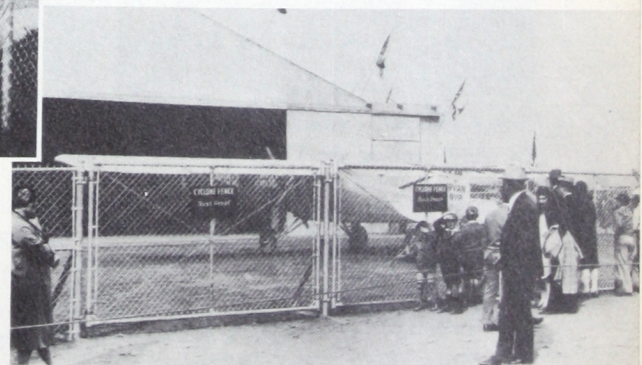
An unusual use of Cyclone Invincible Fence. This fence is erected on the roof of an apartment building to convert it into a playground for children. With such complete protection as this high, unclimbable fence affords, can you imagine a safer playground than an apartment house roof, far above all dangerous street traffic?



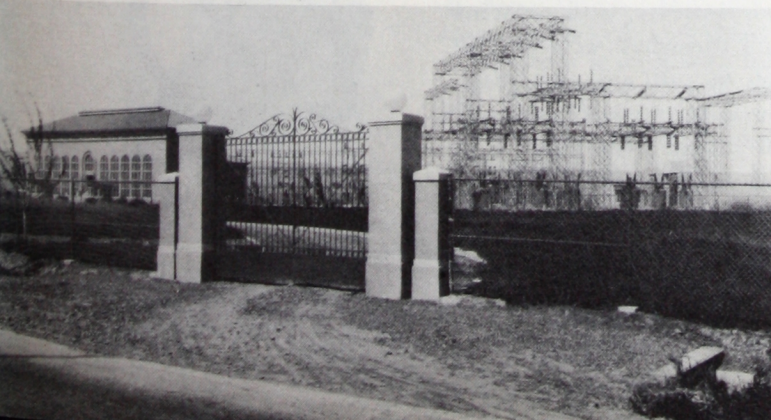
Cyclone Invincible Fence encloses many of the finest outdoor swimming pools and sports arenas in America. This high, sturdy fence insures privacy for private or club pools, and more paid admissions for public fee pools. The flexibility of the Chain-Link also enables it to conform to almost any shape of pool.



Illustrated above is a very familiar use for Cyclone Non-Climbable Fence . . . to form enclosures for animals in zoos. Many of our finest zoos are fenced with Cyclone.

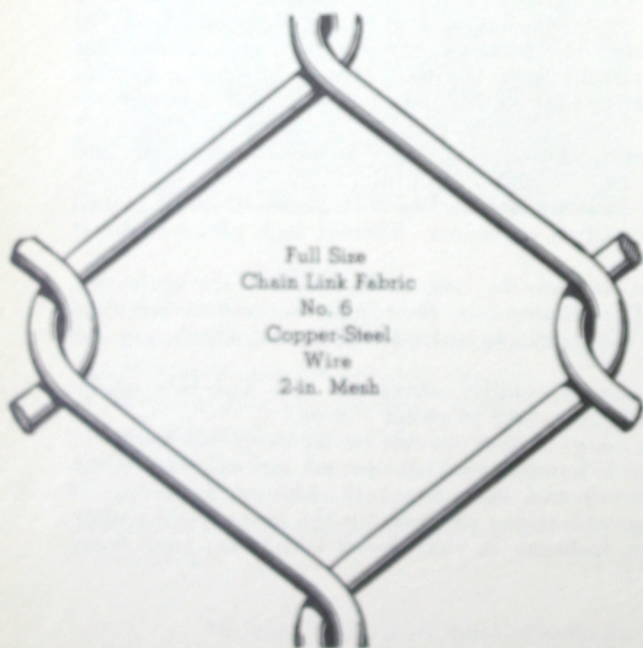


Again—an airplane landing field fenced with Cyclone Safeguard Fence. People are able to see, yet unable to get into danger. And it is quite logical for you to expect to find such recognized "danger spots" well enclosed with genuine Cyclone Fence.



Here is still another example of a Cyclone Safeguard Fence enclosing an electric power station. Note the high steel picket gate set between stone posts. See how well the trim Chain-Link fabric and the graceful steel picket gate set each other off, yet combine in a most attractive and effective enclosure.

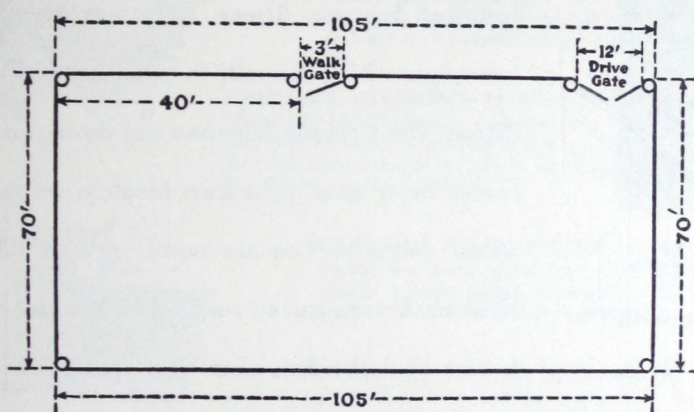
★ ★ ★ CYCLONE ROAD GUARD



Cyclone Road Guard is a heavy, elastic net for stopping and holding autos that swerve from the road at dangerous curves. It is woven from heavy No. 6 gauge copper steel wire in 2" mesh with knuckled edges. The links are formed by gradual easy bending so as to preserve all the natural strength and elasticity of the steel. There are no sharp wraps or kinks. This fabric is designed to stand a tensile strength test of 70,000 pounds per square inch, based on the cross-sectional area of the galvanized wire. Like all Cyclone Fence, Cyclone Road Guard is hot-dip galvanized after weaving. State and County Highway departments find this fence invaluable in preventing accidents at dangerous curves.

INSTRUCTION ON DRAWING Fence Diagrams

● In case you wish to correspond with us regarding proposed fencing for your property, it will be very helpful if you will furnish a diagram as indicated by Fig. No. 1. Indicate the fence by straight lines, and the gates by openings. Indicate end, corner and gate posts thus: "O". Give width of gate openings. For drive gates, state whether single or double gates are wanted. Give exact measurement of each stretch of fence, and total measurements, including gate openings. Use care to see that all measurements are correct, as the fence will be estimated or made up according to the diagram sent us.



Sample Diagram Fig. No. 1

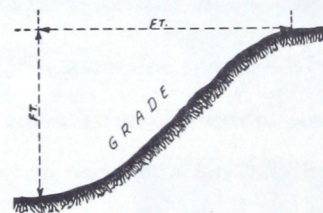


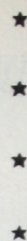
Fig. No. 2

Mention height and style of fence. If fence is to be built on wall or curb, give full details. State whether wall or curb is built, or will be built when fence is erected, in order that posts of proper length can be furnished. State height and width, also material of which wall is constructed. Specify whether gates shall be height of fence only, or total height of fence plus the height of wall or curb.

Cyclone Fence will conform to any ordinary grade. If grade is extreme, it should be shown as indicated by diagram, Fig. No. 2.

• • •

If you prefer, a Cyclone representative will call, measure your property and compile all data necessary for building and installing your fence.



THE CYCLONE SALESMAN



A Cyclone Fence salesman will call on you at any time to discuss your fencing problems with you without any obligation on your part. He is a highly trained and efficient fencing engineer. He is equipped to look over your requirements and, taking all factors into consideration, recommend the fence which will best fit your needs at the lowest possible cost to you. Ask his advice on the fence you are thinking of installing. It will be freely and expertly given — and the fence that he recommends and you install will give you many years of satisfaction and service.

Satisfaction

One question you will ask, and which you have a right to ask is, "What will my fence be like five years from now?" Well, we can pretty safely

say, barring such unusual things as earthquakes, freak accidents and fume-laden air, which occurs in certain limited areas, your fence will be good many years from now. The best evidence of this is the number of Cyclone Fences which we have installed five, ten, fifteen, twenty or even more years ago, which are still in perfectly good condition. The Cyclone salesman can show you such fences in or near your own locality, no matter where you live. You are never very far from a Cyclone Fence, owing to Cyclone's wide distribution and the fact that they maintain offices and warehouses in all parts of the country.

CYCLONE EASY-PAYMENT PLAN

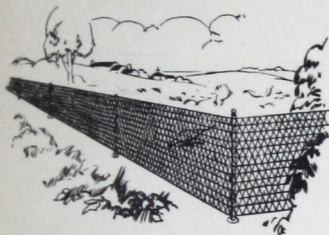
**Makes This Famous Quality Fence Available
to All Home-Owners!**

And here's good news for every home-owner. You can have immediately the sure protection of Cyclone Fence. For Cyclone's easy-payment plan makes it possible for every family to afford this valuable protection — safety for your children — protection for your flowers, shrubs, lawn and garden, whether your home is a modest dwelling or a mansion.

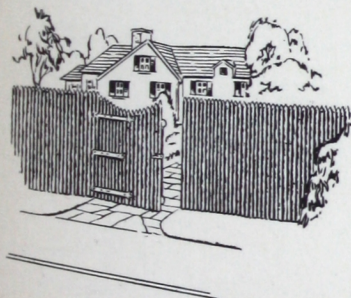
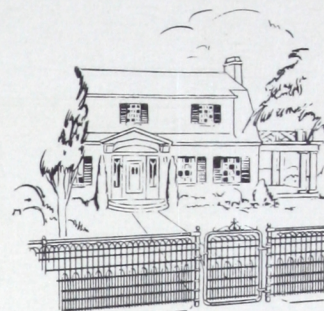
★ Tear Out and Mail Postage-Free Card for Further Data.



CYCLONE UTILITY FENCE is extremely popular for general farm use. Makes an excellent division fence on farm and estate. Posts are high carbon steel U-shaped. The fabric is made of heavily galvanized wire. Upright stays either 6 or 12 inches apart.

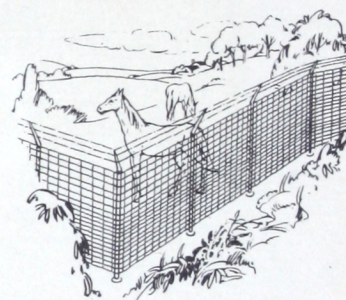


CYCLONE COLONIAL COMPLETE FENCE. A comparatively low priced fence for general residential purposes. Extra durability and attractiveness is afforded by Colonial Complete Fence because of the use of steel post and top rail construction.



CYCLONE DIAMOND MESH FENCE is particularly adaptable for the larger estates where effective protection and small mesh is required at a minimum cost. Ideal "U" drive posts are used for lower heights, "H" column posts for the higher installations.

CYCLONE PARK FENCE is particularly adaptable for paddocks, game preserves, deer parks, etc. Provides a sturdy barrier when erected on "H" column posts. Furnished with or without barbed wire extensions.

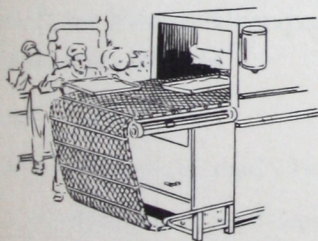


CYCLONE CEDAR FENCE. Made in two general types, picket style and rail or hurdle style. The maximum in cedar fence beauty is combined with permanence and strength when Cyclone "H" column steel posts are used.

CYCLONE FLEXIBLE STEEL MATS for use on door steps and in lobbies for cleaning footwear or as a safety covering to prevent accidents on wet, oily, slippery floors in factories, lunch rooms, etc.



CYCLONE CONVEYOR BELT furnished in many widths and meshes. For use where products must be conveyed through heat, acid baths or other treating processes. Special steel specifications for various requirements.



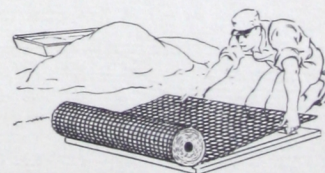
CYCLONE "RED TAG" WIRE SCREEN CLOTH furnished in standard widths and meshes. Finishes are painted black, galvanized, bronze and copper. The Galvanized, Bronze and Copper Cloth is provided with a protective coating of high grade lacquer.



CYCLONE CATCH-ALL AND BURNER BASKETS have proved themselves to be of real value indoors and out. Ideal rubbish burners they are handy receptacles for materials of all kinds. Sturdily built to withstand abuse.



CYCLONE "RED TAG" HARDWARE CLOTH because of its additional strength, extra heavy coating and uniform weave finds innumerable uses. Available in standard widths and meshes.



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